

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P798265

Luminaire Tested: 24GRSCT3-F1-UNV-LOW-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798265
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292954)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-F1-UNV-LOW-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

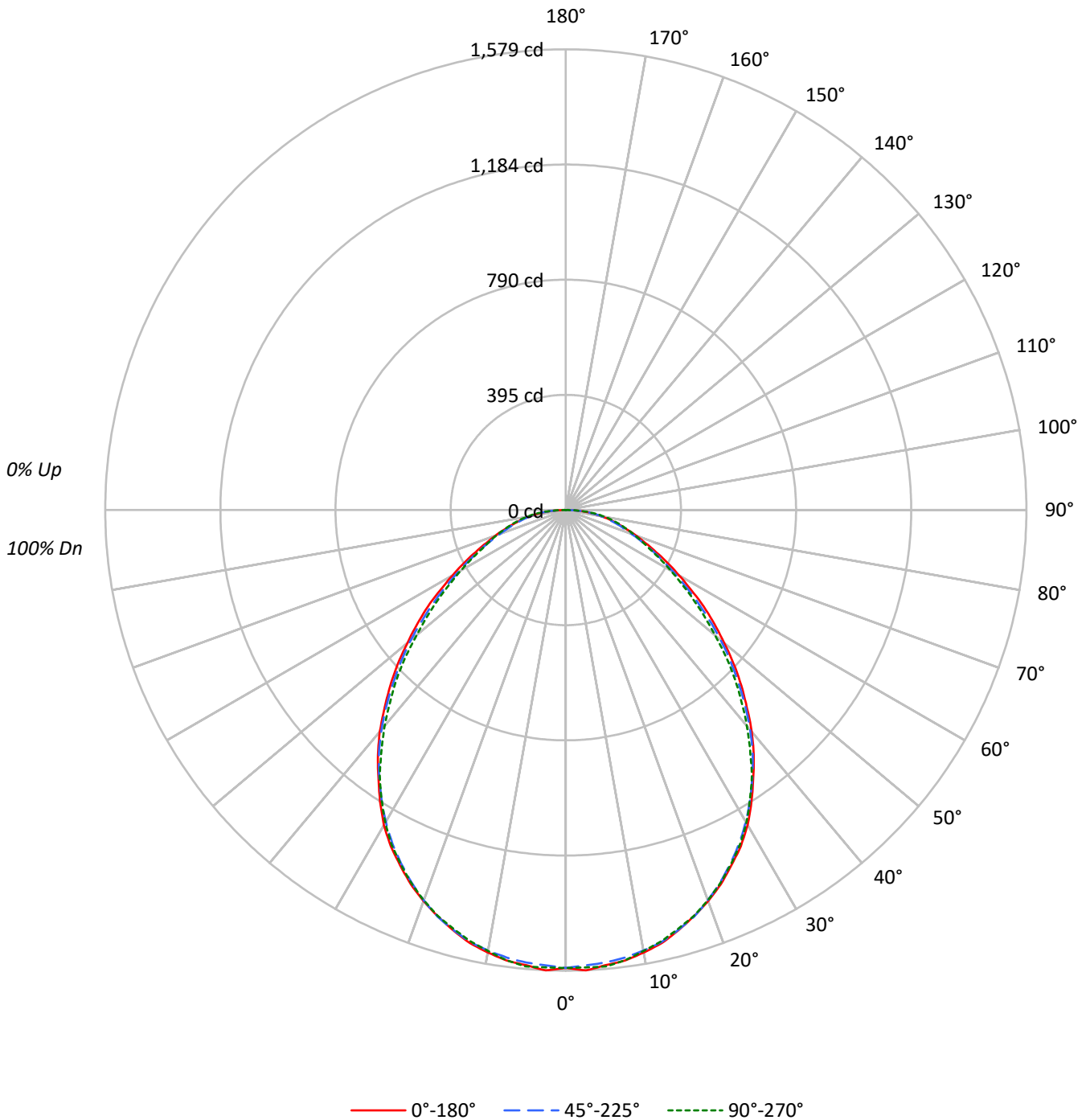
Lumens per Lamp: N/A
Luminaire Lumens: 3613.3 lumens
Efficiency: N/A
Efficacy: 153.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	87	87	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	56	56	56	54
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	49	49	49	47
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	44	44	44	42
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	39	39	39	37
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	36	36	36	34
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	32	32	32	31
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2112	2112	2112
5°	2115	2103	2121
10°	2104	2095	2097
15°	2077	2075	2070
20°	2043	2038	2038
25°	1995	1984	1988
30°	1937	1917	1923
35°	1840	1831	1826
40°	1742	1727	1697
45°	1619	1591	1560
50°	1483	1451	1396
55°	1355	1294	1250
60°	1207	1149	1119
65°	1087	1030	1016
70°	1009	947	985
75°	964	922	999
80°	964	964	1068
85°	1002	1013	1127

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1619 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	4.1
10°-20°	419.5	11.6
20°-30°	615.6	17.0
30°-40°	696.0	19.3
40°-50°	643.3	17.8
50°-60°	495.6	13.7
60°-70°	328.2	9.1
70°-80°	195.3	5.4
80°-90°	71.6	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1183.3	32.7
0°-40°	1879.4	52.0
0°-60°	3018.2	83.5
0°-90°	3613.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3613.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1566	1566	1557	1558	1570	149
15°	1491	1488	1490	1489	1486	420
25°	1344	1340	1336	1335	1339	619
35°	1120	1119	1115	1110	1112	701
45°	851	845	836	821	820	656
55°	578	566	552	537	533	515
65°	341	336	324	320	319	342
75°	186	181	177	186	192	198
85°	65	61	66	72	73	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1569.6	1569.6	1569.6	1569.6	1569.6
2.5°	1579.3	1571.1	1562.1	1562.1	1568.9
5°	1565.9	1565.9	1556.8	1557.6	1570.3
7.5°	1557.6	1553.2	1547.2	1547.2	1556.8
10°	1539.8	1536.0	1533.1	1531.5	1534.5
12.5°	1520.4	1514.5	1516.7	1514.5	1513.7
15°	1491.3	1488.4	1489.8	1489.0	1486.0
17.5°	1460.0	1458.5	1461.5	1456.3	1458.5
20°	1426.5	1422.0	1423.5	1420.5	1423.5
22.5°	1388.5	1385.5	1381.8	1378.0	1384.0
25°	1343.7	1340.1	1336.3	1334.8	1339.3
27.5°	1299.0	1293.0	1287.9	1286.3	1293.0
30°	1246.9	1240.2	1234.1	1232.7	1237.9
32.5°	1185.0	1183.5	1176.0	1173.0	1175.3
35°	1120.2	1118.6	1114.9	1109.7	1111.9
37.5°	1058.3	1057.5	1052.4	1043.4	1037.4
40°	992.0	986.7	983.0	970.3	965.9
42.5°	918.9	917.5	910.8	896.6	891.4
45°	851.1	845.1	836.2	821.2	819.8
47.5°	781.1	772.8	764.7	746.1	745.3
50°	708.7	702.8	693.1	674.5	667.0
52.5°	641.7	633.5	620.1	602.1	598.5
55°	577.6	565.7	551.5	536.6	532.9
57.5°	509.0	503.8	486.7	474.8	470.2
60°	448.7	444.1	427.1	415.9	415.9
62.5°	394.3	387.6	372.6	365.2	365.2
65°	341.3	336.1	323.5	320.5	319.0
67.5°	295.8	289.1	280.2	279.4	283.2
70°	256.4	248.2	240.7	248.2	250.4
72.5°	219.1	213.9	207.2	216.9	221.3
75°	185.5	181.1	177.4	185.5	192.2
77.5°	155.0	150.5	150.5	159.5	165.5
80°	124.4	121.4	124.4	131.9	137.8
82.5°	95.3	93.1	96.9	104.4	108.1
85°	64.9	61.1	65.6	72.3	73.0
87.5°	30.6	29.8	32.8	37.2	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)